

10/078,447

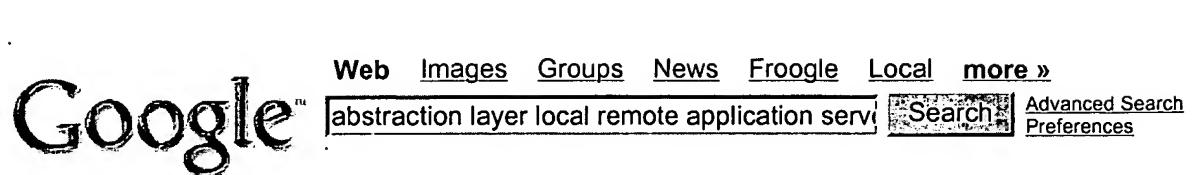
Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	2	("20020116457").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/24 10:37
S2	0	("(applicationwithserver)and(cachewithdatabase)and(datawithsubscri\$7)and@ad<20010222").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/04/27 14:51
S3	132	(application with server) and (cache with database) and (data with subscri\$7) and @ad<"20010222"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/27 16:23
S4	8	(application with server with abstract\$6) and (cache with database) and (data with subscri\$7) and @ad<"20010222"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/27 15:03
S5	18	(application with server with abstract\$6) and (cache with database) and @ad<"20010222"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/24 10:57
S6	4	("6718535" or "6845503").pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/24 09:02
S7	190	(cache with database) and (data with subscri\$7) and @ad<"20010222"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/27 16:24
S8	70	(cache with database with server) and (data with subscri\$7) and @ad<"20010222"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/24 10:57
S9	27	(cache with database with server) same (data with subscri\$7) and @ad<"20010222"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/24 10:18
S10	0	(cache with database with server) same (data with subscri\$7) and @ad<"20010222" and transaction and serializ\$6	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/23 18:54

S11	26	(cache with database with server) same (data with subscri\$7) and @ad<"20010222" and transaction	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/23 18:54
S12	0	(cache with database with server) same (data with subscri\$7) and @ad<"20010222" and transaction and serializ\$7	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/23 18:55
S13	26	(cache with database with server) same (data with subscri\$7) and @ad<"20010222" and transaction and (application with server)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/23 18:55
S14	20	(cache with database with server) same (data with subscri\$7) and @ad<"20010222" and transaction and (application with server) and (database adj server)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/23 18:55
S15	20	(cache with database with server) same (data with subscri\$7) and @ad<"20010222" and transaction and (application adjserver) and (database adj server)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/23 18:56
S16	0	(cache with database with server) same (data with subscri\$7) and @ad<"20010222" and transaction and (application adjserver) and (database adj server) and rsource	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/23 18:56
S18	16	(cache with database with server) same (data with subscri\$7) and @ad<"20010222" and transaction and (application adjserver) and (database adj server) and resource and query	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/23 18:56
S20	27	(cache with database with server) same (data with subscri\$7) and @ad<"20010222"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/24 10:39
S21	16	(cache with database with server) same (data with subscri\$7) and @ad<"20010222" and transaction and (application adjserver) and (database adj server) and resource	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/24 10:21
S22	0	(application with server with abstract\$6) and (cache adj database) and @ad<"20010222"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/24 10:38

S23	92	(application with server ) and (cache adj database) and @ad<"20010222"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/25 20:21
S24	6	("6718535" or "6845503" or "6081518").pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/24 13:08
S25	0	(application with server with abstract\$6) and (cache adj database) and @ad<"20010222"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/24 10:57
S26	7	(cache adj database with server) and (data with subscri\$7) and @ad<"20010222"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/25 18:53
S27	8	("6718535" or "6845503" or "6081518").pn. or "20020073167"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/24 13:11
S28	4	("6718535" ).pn. or "20020073167"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/24 19:01
S29	0	serialization near2 transaction with isolation and @ad < "20010222"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/24 19:02
S30	0	(serialization near2 transaction) and @ad < "20010222"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/24 19:02
S31	1	serialization near2 transaction with isolation and @ad < "20010222"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/24 19:02
S32	0	(mapping with row) and (cache adj database with server) and (data with subscri\$7) and @ad<"20010222"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/25 18:54

S33	92	(application with server ) and (cache adj database) and @ad<"20010222"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/25 20:21
S34	10	707/3.ccls. and S33	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/25 20:22
S35	12	707/10.ccls. and S33	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/25 20:22
S36	4	707/200.ccls. and S33	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/25 20:22
S37	0	707/204.ccls. and S33	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/25 20:22
S38	14	709/203.ccls. and S33	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/25 20:23

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	0	("("6718535"or"6845503"or"6081518").pn.").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/24 10:35
S2	0	("6718535"or"6845503"or"6081518").pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/24 10:35
S3	6	("6718535" or "6845503" or "6081518").pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/24 10:36
S4	189	cache adj database and @ad < "20010221"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/24 10:36



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**Local applications** can access the **server** directly from C++ or Java, and **remote applications** can access it with SOAP. Security is provided on a per-document ...

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**BIS'99**

Object Design, manufacturer of object oriented database ObjectStore, delivered **application server** eXcelon aimed in supporting **applications** using XML-tagged ...

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work an intermediate **abstraction layer**, called Web Services Management **Layer**. (WSML). The WSML allows decoupling services from the **application**, ...  
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Some **application servers** such as WebSphere come with software to do this. ...

The front end objects are a combination of the **cache database** and the servlet ...

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In brief, the scheme involves building a **layer** on top of the **application server** session pool API that registers open connections in a cache maintained in ...  
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**Server application** creates **remote objects**, makes references to them available and allows ... **Data abstraction layer**. The session bean **layer** is a facade. ...  
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limited when the **remote application servers** try to access. needed data from central backend ... route queries either to the **local cache database** or to the ...  
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shrink-wrapped **application** by **local** administrators who do not have access to the ... The **cache database** is aware of the identity of the **remote server** ... [www.almaden.ibm.com/u/mohan/Middle-tier%20Database%20Caching%20for%20e-Business.pdf](http://www.almaden.ibm.com/u/mohan/Middle-tier%20Database%20Caching%20for%20e-Business.pdf) - [Similar pages](#)

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This **abstraction layer** is designed to support multiple native formats. ... A basic php-based DSTP client **application** will be developed for **remote** browsing ... [www.ncsa.uiuc.edu/NARA/1\\_03\\_3.doc](http://www.ncsa.uiuc.edu/NARA/1_03_3.doc) - [Similar pages](#)

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munication with the **local** IPsec kernel via PF KEY, and. the management of the policy **cache database**), the policy. **layer** on **servers** is also provides policy ... [security.polito.it/doc/pub/iconn2001.pdf](http://security.polito.it/doc/pub/iconn2001.pdf) - [Similar pages](#)

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**application server** in the Clustered **Remote** DB topology. Note ... the OCI **layer** before a statement reaches the **cache database**. Consequently, the statement is ... [www-db.cs.wisc.edu/dbseminar/spring02/talks/qiongluo.pdf](http://www-db.cs.wisc.edu/dbseminar/spring02/talks/qiongluo.pdf) - [Similar pages](#)

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**Server**. #cpu. BW. GB/sec. **Local**. Latency. (ns). **Remote**. Latency ... **application** layer first. The **application** is. definitely the BEST place to make changes, ... [blogs.sun.com/roller/resources/glennt/fawcett.25kscale.rev1.02.pdf](http://blogs.sun.com/roller/resources/glennt/fawcett.25kscale.rev1.02.pdf) - [Similar pages](#)

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connectivity or by using an operating system **abstraction layer** that ... By, utilizing both **local/remote server** caches, Cache Fusion exploits the caches of ... [www.oracle.com/technology/products/database/clustering/pdf/RACvDB2.pdf](http://www.oracle.com/technology/products/database/clustering/pdf/RACvDB2.pdf) - [Similar pages](#)

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**applications** (clients and **servers**) by providing the fundamental ... component that together provide a hardware **abstraction layer** ...

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**application**). In this case, the times grow both for. cache access (from a **local** or **remote** ASP.NET page),. and for access to the database. ...

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**Method of checking the validity of a set of digital information ...**

2a, the clients 201a fetch data from the back end database 206a via a network 202a, a **remote application server** 203a and a **remote database server** 204a. ...

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But **application servers** are driving a move to multi-tier architectures. ...

"We've a data **abstraction layer**, which is mostly XML calls and stored procedures ...

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**Abstract** By effectively harnessing networked computing resources, the two-tier ... IWait service. T s-msg. **Server** Processing. **Remote** Client Processing ...

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### IETF July 1999 Proceedings

Transport layer properties wanted for the realtime **applications** over cell ...

**local** interfaces (LI), and hosts may peer with multiple **remote** addresses (RA). ...

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iAS (Oracle Internet Application Server), 304, 307, 312 ... SRDF (Symmetrix **Remote** Data Facility), 261 SSL (Secure Sockets **Layer**), 308 ...

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**Application Server**) performs delegation as an Inter-Process Call rather than a **Remote** Procedure Call, eliminating network bottlenecks. ...

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user **applications** and/or at different protocol **layers**. 2.2.3. Simplification of Domain Hierarchy ... with the **local** security **server** and to provide consis- ...

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... but the data **abstraction layer** ensured the system could be deployed on **SQL Server**, Oracle, etc. ... Objective: Client/**Server** Distributed **Application** ...

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### N/X 2004 -- Installation Manual

We use another additional **abstraction layer** to cache and assemble our queries.

Future database **server** support could be added in here. ...

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... Version 1.4, 2001-07-18 **Abstract** ... After applying the pattern at least some of these  
remote calls are replaced by local calls on the **server** ie calls from the ...

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when migrating a **remote** display **application**, VNC. Fur- ... **local** **cache** **database**  
for the current location of the re- quested service. ...

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... Facility (XRF) | extended **remote** copy (XRC ... message | hardware | hardware **abstraction**  
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### [The First International Conference on Mobile Systems, Applications ...](#)

The single **server** maintains the official database state. Mobile clients **cache**

**database** snapshots. **Applications** running on mobile devices update the shared ...

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**Server** interacts with the **business layer** and **business layer** interacts ... If the  
**remote** code was signed and trusted then it could access **local** resources. ...

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The mobile node needs to de-register the **remote** binding of the care-of ...

**application servers** limit connection only from the W-CDMA cellular network. ...

[www.nautilus6.org/doc/drafts/draft-wakikawa-mobileip-multiplecoa-04.txt](http://www.nautilus6.org/doc/drafts/draft-wakikawa-mobileip-multiplecoa-04.txt) - 66k - [Cached](#) - [Similar pages](#)

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**applications** to perform discovery, browse and query operations against. distributed and potentially heterogeneous catalog **servers**. Most commonly a ...  
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### Chapter 23. Miscellaneous & Advanced Networking Topics

Therefore, to create true OSI Layer 3 **abstraction** in a switched environment, ... for client/server **applications** by using secret-key cryptography. ...  
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**EJB Application Server.** **Web Server.** Container. **EJB Server** ... The **Remote/Local** Interface. Deployment Descriptors. JAR file. THE ENTERPRISE BEAN CLASS. ...  
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#### XML Database Products: Native XML Databases

... suite of products built in three **layers** – core services ... and DOM Level 3 (Load/Save, **Abstract** Schemas ... **Local applications** can access the **server** directly from C++ ...  
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tion in handheld **applications**, thus the ideal **abstraction** for ... has its **local** database which stores the user's data. A **cache database** stores all data of ...  
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... it to host B – Next IP hands the message to network access **layer** ( Ethernet ) with ... which needs to connect to the **server** asks its **local** TCP software ... **Abstract**: ...  
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Mobile clients **cache database** snap-. shots. **Applications** running on mobile devices update ... tem as a middleware **layer** in Java. In the **server**, an Or- ...  
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**remote access applications.** These **applications** can have a variety ... provides a hardware **abstraction layer** for graphics, video, audio. and input devices. ...

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... 5-14 Secure Sockets Layer (SSL) Support ... service: Oracle Corporation Oracle9i **Application Server** Documentation 500 ... please contact your **local** Oracle Support ...

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use **application server**, at least for "non db intensive" **applications** ...

**abstract layer** that multiple devices such as printer, PLIP (parallel ...

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a **layer of abstraction** that allow the developer to create complex systems using very

... **Cache Database**. Web site content **local**. storage. Interaction state ...

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[Rahm, Erhard; Stöhr, Thomas: Controlling Disk Contention for ...](#)

Disks and disk controllers have explicitly been modelled as **servers** to ...

7 Intra-query parallelism may be implemented by an additional **layer** on top of a ...

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[An Approach For Building Scalable, Available and Recoverable ...](#)

... **layer** on top of the database in the servlet **layer**. ... we replicate the ten databases to ten **local** databases ... This **abstract** architecture can be implemented many ways ...

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... **local** result 320 to data access **layer** 349. ... in **cache database** 347; in such entries, **local** dataset ID ... of **cache database** 347 and because **abstract** query translator ...

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... to the user without any factoring, **abstraction** or re ... in Figure 1, the information retrieval **layer** consists of ... being authorized applet to access **local** database. ...

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... **Abstract:** The delivery demonstrates a new future solution ... 7.2.1 The **firs** **layer** of the security is further divided into **local** network administrations ...

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an "agreement" between components and **application servers** that enable ...

The concepts of **local** and **remote** elements will be alluded to repeatedly in the ...

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there is virtually no difference between **local** and **remote** files. By ... be the highest **layer**, and all their functions have the prefix vfdb... ...

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Based on the configuration of the web **server** and the web **application**, ...

.NET forms authentication capability allows **remote** attackers to bypass ...

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Multithreading makes your **applications** more responsive (in the presentation **layer**)

and can be used to execute tasks that can't interfere with each other in ...

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Figure 6.6 shows how the **server** interacts with the **local** database. For the **application**, logic a connection pool is maintained. In order to **abstract** the ...

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specialisation to Web **applications**, renders Java as the most appropriate language

for such a task. 3.4 Back-end structure A Web **server** is maintained at ...

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... using an operating system **abstraction layer** that provides ... By, utilizing both

**local/remote server** caches, Cache ... O for synchronization because the **local** node can ...

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**INTERNET-DRAFT** Eric A. Hall, **Editor Document: draft-hall-dm-idns ...**

An **application** on a **remote** system generates a DNS lookup for the PTR resource

... Get Wide **Local Name**. **Applications** which utilize internationalized domain ...

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43 6.4.2 **Remote Server** Class (RServer) ..... 44 6.4.3 **Local**

**Server** Class (LServer) ..... 45 6.4.4 Cache ...

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in the client look as if they were **local** instead of **remote**. ... different **layers**

in the **application**. Beans consist of various properties and of a getter and ...

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**application servers**. Most likely the EJB will communicate with the persistent data

... It contains an **abstraction layer** that enables easier plugging-in of a ...

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**servers** for **remote** database file access. The arrows represent TCP/IP con-

nections and **local** filesystem access through the filesystem primitives. ...

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the propagation transaction globally commits at **remote** sites. The **server layer**

at the primary copy site is responsible for granting and releasing the locks ...

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map with the preferences, the **application server** will first check the **cache database**.

It is easy to observe that it is not actually implemented caching ...

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the web **application** looks and feels more like a **local application**. ... CSS files.

Image files. JavaScript files. **Cache database**. Client-side. Server-side ...

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**[DOC] DISTRIBUTED WEB INDEXING AND SEARCHING**

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This section begins by describing an **abstract** view of the **application** structure.

... `allowNonLocalL = JLabel("Allow Non-Local Connections to Web Server")` ...

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**[PDF] EJB Application Patterns**

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... The sequence diagram shows a typical **application** of this pattern using the ... the pattern at least some of these **remote** calls are replaced by **local** calls on ...

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[\[PDF\]](#) **Building EJB Applications - A Collection of Patterns**

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... Version 1.3, 2001-07-12 **Abstract** ... After applying the pattern at least some of these **remote calls** are replaced by **local calls** on the **server** ie calls from the ...  
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**United States Patent Application: 0020184642**

... **Abstract**. ... A **local** programming **server** 430 (eg, an "iBlast" **server** operated by the assignee ... To understand the operation of the middleware **layer** 530, it is helpful ...  
[appft1.uspto.gov/netacgi/nph-Parser?Sect1=PTO2&Sect2=H1OFF&p=7&u=%2Fnetacgi%2FPTO%2Fsearch-... - 58k](http://appft1.uspto.gov/netacgi/nph-Parser?Sect1=PTO2&Sect2=H1OFF&p=7&u=%2Fnetacgi%2FPTO%2Fsearch-...) - Supplemental Result - [Cached](#) - [Similar pages](#)

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Middleware is a key component; however, middle tier **Application Servers** can ...  
Disable **remote** access to the admin accounts on the **application** ...  
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It commences by defining a virtual machine monitor (VMM) as "A **layer** of software that emulates the hardware of a complete computer system." The **abstraction** ...  
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**OOPSLA'96 Workshop 27 Papers**

The "upper" **layer** would provide objects that were directly traceable to common ... This **cache database** is used by the **applications** to prepare changes in the ...  
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**Suresh's SNA Server Questions**

... **local** and **remote** LU's is **abstract** and depends ... **server** to be under control of **local** development group ... DLL / WDMOD.DLL - security isolation **layer** between client ...  
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**Abstract**. ... The default setting of 0 instructs the VDB **layer** to return underlying DB errors to ... The status is OFF for a **local** account or a replicated account where ...  
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... s because the authors know that successful enterprise **applications** start simple ... that categorizes the patterns according to levels of **abstraction** and viewpoints ...  
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starts up and shuts down **servers** on both **local** and **remote** hosts. This. command is useful in multi-host ... SSL (Secure Socket **Layer** ) **server** authentication, ...  
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### esp@cenet description view

... using queues for representing other **layers** of said ... communication protocol functionality at the **local** ATM first ... design to be able to **abstract** from details ...  
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file is then stored in a **local cache database** to facilitate fast transfor- ...  
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Transport layer properties wanted for the realtime **applications** over cell - low  
... (LA) and **local** interfaces (LI), and hosts may peer with multiple **remote** ...  
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### NFUSE WEB SERVER SIZING

'To recreate the **local** host **cache database** Verify the data store is available  
... Trusting a **remote server** (or **application**) is based on its IP address. ...

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... 51 NAV100 Oracle **Server** Management using SQL Navigator ..... 54-55 PRO\*DEV Oracle

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[The Mutt E-Mail Client Michael Elkins <me@cs.hmc.edu> version cvs ...](#)

6.3.194. **ssl\_force\_tls** Type: boolean Default: no If this variable is set, Mutt will require that all connections to **remote servers** be encrypted. ...

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### System and method for query result caching patent

**Application servers** and database **servers** communicate across the network using

... (abstract) - Methods and systems for endorsing **local** search results ...

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### Method and system for managing email attachments for an electronic ...

[0048] In one illustrative embodiment, the **server** 350 can be a **remote server** ...

TM., the email **application** 322 operates in conjunction with the **local** cache ...

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B. Run the **Remote Desktop Connection application** on your computer to establish

... BIOS upgrade requires and upgrade of the Hardware **Abstraction Layer** (HAL) ...

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The **Application Automation Layer** - The Data Hub Implementation ... Classes to enumerate network shares on **local** and **remote** machines, and convert **local** file ...

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parameters, which the web **server** can pass along to the **application** ...

**application layer** and then forward the packets out another interface. ...

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When the home agent checks the binding **cache database** for the mobile node, ...

**application servers** limit connection only from the W-CDMA cellular network. ...

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download the **application** from a set of sources, ie **remote server**, PC, etc. ...

If an individual layer embodies a well-defined **abstraction** and has a ...

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is also intended for security **layer** API's that **application** developers ...

Middleware is a key component; however, middle tier **Application Servers** can al- ...

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Clients and other **application servers** access the files stored on the **remote file server** as though the files are located on their **local** disks. ...

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or by a **Web server** plug-in such as the **remote OSE** function of IBM WebSphere ...

To use the services of an **MQSeries transport layer**, an **application** must make ...

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... that Irene can access the **Web application** on Stefan ... First, you establish a **Remote**

Assistance connection to Stefan ... In the properties of the **Local Area Connection** ...

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If this variable is set, Mutt will require that all connections to **remote servers**

be encrypted. Furthermore it will attempt to negotiate TLS even if the ...

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**application** should receive. If the **remote** device is a Palm ... The UDA Manager

provides an **abstract layer** for reading, filtering, ...

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A DBI-like database **abstraction layer** with drivers for MySQL, InterBase, ODBC,

... SOAP Web service to provide **remote** database access ...

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... to-program communication facility provides the socket **abstraction**. ... can be treated

as a **local** procedure call by the ... that is, between the **transport layer** and the ...

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**remote** machine can be treated as a **local** procedure call by the calling **application**.

RPC ... the **client/server** model that is used to develop **applications**, ...

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One or more **server** nodes physically join the supervisory control **local** and wide

... The supervisory controller 120 contains a driver interface **layer** 225 ...

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**application servers** that are EJB 2.0- and J2EE 1.3-compliant. ... It also adds a layer of **abstraction** from relational database queries. ...

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... Elz: Mobile IPv6 has arranged for **site-local** addresses to work. ... concrete interpretation of having APIs with a level of **abstraction** from network **layer**. ...

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run on distributed **application servers**, connecting to multiple data sources through

... ing tools like **application layer** firewalls and host/network based ...

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... provides another example of a mapping **layer** However, the ... not suited to this type of **application**, because of ... of uniformity. The level of type **abstraction** is in ... [downloads.ebuki.powernews.ru/Kogan.Page/Kogan.Page.Java.and.Databases.eBook-KB.pdf](http://downloads.ebuki.powernews.ru/Kogan.Page/Kogan.Page.Java.and.Databases.eBook-KB.pdf) - Supplemental Result - [Similar pages](#)

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... are inconsistent with **local** law: INTERNATIONAL ... capacity planning are accomplished for pSeries **servers**. ... Information about performing **application-specific** sizing ...

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... 2003 and XP certificate store is divided into two **abstraction layers**: the ... relationship, the certificate issued by the **local** CA for a **remote** CA is ... [www.securenets.ee/raamatud/Keeping%20Your%20Business%20Safe%20from%20Attack%20Encryption%20and%20Certifica...](http://www.securenets.ee/raamatud/Keeping%20Your%20Business%20Safe%20from%20Attack%20Encryption%20and%20Certifica...) - [Similar pages](#)

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the **remote** CML **application** is running in (on an OpenVMS node). When the ...

**Local** entity name of the the **Physical layer** entity over which the HDLC protocol ...

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audio/video service involves communication with **remote servers**. ... **Applications**:

The **Application Layer** includes the **user applications**. ...

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The file browser is the interface to the **local** or **remote** file system. ... Mutt-ng supports four authentication methods with **IMAP servers**: SASL, GSSAPI, ...

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**servers** (and caches) in **remote** locations without adding replicated databases. This ... **application** must use **remote** access to the data access **layer** ...

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Token-Ring **Remote** systems that are accessed through the Data Link Switch appear as ... Processing Systems, **Local** Area Networks, Part 2: MAC **layer** Bridging. ...

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You intend to Attach tables hosted within **non-local** or **Remote** Virtuoso database ... **access** interfaces, providing an **abstraction** **layer** that serves to ...

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... with both Fundamental and Transparent **layers** to extend ... database **servers** connecting to **remote** **application** clients ... types are Java interfaces (purely **abstract** types ...

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The **layer** of **abstraction** provided by the STS means that the STS must use another ... **system** or **application** **servers** are used to handle security features. ...

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in a **local** **cache** **database**. Note. A DPE should be assigned to only one provisioning group. **TFTP Server**. The integrated **TFTP server** receives requests for ...

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... would be the **REMOTE** type, and -there wouldn't be any of the **LOCAL** type; ...

+ +=item \* +Neither **cache database** records locally, although they can ...

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... This standard **application** exception is thrown by the create methods ... javax.ejb.EJBHome  
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a **local** and **remote** host on a point-to-point link, based on the RTT timings of

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... before the CDMF library is called to map the **remote** user into the **local** ...

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... IBM MQSeries Integrator, and IBM WebSphere **Application Server**. ... pattern exists as

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**Application servers** might **cache database** relations (database cache). ...

Node type = Partitioned Database **Server** with **local** and **remote**. clients ...

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... With each **layer** managing distinct tasks, the design offers expandability,

maintainability, and flexibility, to name a few; and ... **Local** variables ... **application** page ...

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Tip 5: Do Not **Cache Database** Connections in the **Application** or **Session Objects**

... we can kill a process either on the **local** machine, or on a **remote** machine ...

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The messages currently enqueued are recorded in the queue **cache database**. ...

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... Enterprise APIs form a single, standard **layer** on top ... to invoke methods of a normal **local** object. ... includes a CORBA-based solution for **remote** method invocation ...

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... This standard **application** exception is thrown by find ... can be used to obtain a **remote** reference to ... `java.io.Serializable { public abstract EJBObject getEJBObject ...}`

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calls, thus making it difficult to communicate with **application servers** and ...

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... **server** and for optionally negotiating a security **layer** for subsequent ...

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want to connect to a database **server** running on the **local** machine, just leave the

... **server**, client **applications** cannot themselves raise this exception. ...

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... his earlier work on this subject: The **Application Automation Layer**: Introduction

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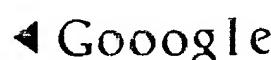
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## 1 [Industrial sessions: middle-tier caching: Middle-tier database caching for e-business](#)

Qiong Luo, Sailesh Krishnamurthy, C. Mohan, Hamid Pirahesh, Honguk Woo, Bruce G. Lindsay, Jeffrey F. Naughton

June 2002 **Proceedings of the 2002 ACM SIGMOD international conference on Management of data**

**Publisher:** ACM Press

Full text available: [pdf\(1.20 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

While scaling up to the enormous and growing Internet population with unpredictable usage patterns, E-commerce applications face severe challenges in cost and manageability, especially for database servers that are deployed as those applications' backends in a multi-tier configuration. Middle-tier database caching is one solution to this problem. In this paper, we present a simple extension to the existing federated features in DB2 UDB, which enables a regular DB2 instance to become a DBCache wi ...

## 2 [System support for pervasive applications](#)

Robert Grimm, Janet Davis, Eric Lemar, Adam Macbeth, Steven Swanson, Thomas Anderson, Brian Bershad, Gaetano Borriello, Steven Gribble, David Wetherall  
November 2004 **ACM Transactions on Computer Systems (TOCS)**, Volume 22 Issue 4

**Publisher:** ACM Press

Full text available: [pdf\(1.82 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Pervasive computing provides an attractive vision for the future of computing. Computational power will be available everywhere. Mobile and stationary devices will dynamically connect and coordinate to seamlessly help people in accomplishing their tasks. For this vision to become a reality, developers must build applications that constantly adapt to a highly dynamic computing environment. To make the developers' task feasible, we present a system architecture for pervasive computing, called & ...

**Keywords:** Asynchronous events, checkpointing, discovery, logic/operation pattern, migration, one.world, pervasive computing, structured I/O, tuples, ubiquitous computing

## 3 [Performance impact of proxies in data intensive client-server applications](#)

Michael D. Beynon, Alan Sussman, Joel Saltz  
May 1999 **Proceedings of the 13th international conference on Supercomputing**

**Publisher:** ACM Press

Full text available:  pdf(1.29 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

**Keywords:** caching, client-server, proxy, scalability, wide-area

4 [Data caching issues in an information retrieval system](#)

 Rafael Alonso, Daniel Barbara, Hector Garcia-Molina

September 1990 **ACM Transactions on Database Systems (TODS)**, Volume 15 Issue 3

**Publisher:** ACM Press

Full text available:  pdf(2.11 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Currently, a variety of information retrieval systems are available to potential users.... While in many cases these systems are accessed from personal computers, typically no advantage is taken of the computing resources of those machines (such as local processing and storage). In this paper we explore the possibility of using the user's local storage capabilities to cache data at the user's site. This would improve the response time of user queries albeit at the cost of incurring t ...

**Keywords:** cache coherency, data sharing, information retrieval systems

5 [Web technologies and applications \(WTA\): Adaptive data dissemination and caching](#)

 for edge service architectures built with the J2EE

Erich Liebmann, Schahram Dustdar

March 2004 **Proceedings of the 2004 ACM symposium on Applied computing**

**Publisher:** ACM Press

Full text available:  pdf(326.59 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The deployment of distributed enterprise applications and e-business solutions, that leverage edge service architectures across wide area networks, require flexible and adaptable models for data dissemination and caching. In this paper we present the design of an architecture that streamlines the integration of proactive data dissemination and caching into e-commerce solutions built with the Java 2 Enterprise Edition. The utilization of an adaptive push and pull approach combined with the flexib ...

**Keywords:** J2EE, JMS, adaptive, caching, data dissemination, data services layer, distributed enterprise applications, edge services, pull, push

6 [ObjectGlobe: Ubiquitous query processing on the Internet](#)

R. Braumandl, M. Keidl, A. Kemper, D. Kossmann, A. Kreutz, S. Seltzsam, K. Stocker

August 2001 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 10 Issue 1

**Publisher:** Springer-Verlag New York, Inc.

Full text available:  pdf(251.44 KB) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

We present the design of ObjectGlobe, a distributed and open query processor for Internet data sources. Today, data is published on the Internet via Web servers which have, if at all, very localized query processing capabilities. The goal of the ObjectGlobe project is to establish an open marketplace in which *data* and *query processing capabilities* can be distributed and used by any kind of Internet application. Furthermore, ObjectGlobe integrates *cycle providers* (i.e., machi ...

**Keywords:** Cycle-, function- and data provider, Distributed query processing, Open systems, Privacy, Quality of service, Query optimization, Security

7 Industrial papers: service oriented architectures, middleware: Service Oriented Database Architecture: APP server-lite?

 David Campbell

June 2005 **Proceedings of the 2005 ACM SIGMOD international conference on Management of data**

**Publisher:** ACM Press

Full text available:  pdf(505.57 KB) Additional Information: [full citation](#), [abstract](#), [references](#)

As the capabilities and service levels of enterprise database systems have evolved, they have collided with incumbent technologies such as TP-Monitors or Message Oriented Middleware (MOM). We believe this trend will continue and have architected the upcoming release of SQL Server to advance this technology trend. This paper describes the Service Oriented Database Architecture (SODA) developed for the Microsoft SQL Server DBMS. First, it motivates the need for building Service Oriented Architectu ...

8 Piranha: a scalable architecture based on single-chip multiprocessing

 Luiz André Barroso, Kourosh Gharachorloo, Robert McNamara, Andreas Nowatzky, Shaz Qadeer, Barton Sano, Scott Smith, Robert Stets, Ben Verghese

May 2000 **ACM SIGARCH Computer Architecture News , Proceedings of the 27th annual international symposium on Computer architecture ISCA '00**, Volume 28 Issue 2

**Publisher:** ACM Press

Full text available:  pdf(191.10 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The microprocessor industry is currently struggling with higher development costs and longer design times that arise from exceedingly complex processors that are pushing the limits of instruction-level parallelism. Meanwhile, such designs are especially ill suited for important commercial applications, such as on-line transaction processing (OLTP), which suffer from large memory stall times and exhibit little instruction-level parallelism. Given that commercial applications constitute by fa ...

9 Astrolabe: A robust and scalable technology for distributed system monitoring, management, and data mining

 Robbert Van Renesse, Kenneth P. Birman, Werner Vogels

May 2003 **ACM Transactions on Computer Systems (TOCS)**, Volume 21 Issue 2

**Publisher:** ACM Press

Full text available:  pdf(341.62 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Scalable management and self-organizational capabilities are emerging as central requirements for a generation of large-scale, highly dynamic, distributed applications. We have developed an entirely new distributed information management system called Astrolabe. Astrolabe collects large-scale system state, permitting rapid updates and providing on-the-fly attribute aggregation. This latter capability permits an application to locate a resource, and also offers a scalable way to track sys ...

**Keywords:** Aggregation, epidemic protocols, failure detection, gossip, membership, publish-subscribe, scalability

10 Architecting in the Face of Uncertainty: An Experience Report

Ian Gorton, Jereme Haack

May 2004 **Proceedings of the 26th International Conference on Software Engineering ICSE '04**

**Publisher:** IEEE Computer Society

Full text available: [pdf\(218.04 KB\)](#) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

Understanding an application's functional and non-functional requirements is normally seen as essential for developing a robust product suited to client needs. This paper describes our experiences in a project that, by necessity, commenced well before concrete client requirements could be known. After a first version of the application was successfully released, emerging requirements forced an evolution of the application architecture. The key reasons for this are explained, along with the architectural ...

11 [Lightweight object-oriented shared variables for distributed applications on the Internet](#)



Jacob Harris, Vivek Sarkar

October 1998 **ACM SIGPLAN Notices , Proceedings of the 13th ACM SIGPLAN conference on Object-oriented programming, systems, languages, and applications OOPSLA '98**, Volume 33 Issue 10

**Publisher:** ACM Press

Full text available: [pdf\(1.78 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper describes a lightweight yet powerful approach for writing distributed applications using shared variables. Our approach, called SHAREHOLDER, is inspired by the flexible and intuitive model of information access common to the World Wide Web. The distributed applications targeted by our approach all share a weak consistency model and loose transaction semantics, similar to a user's model of accessing email, bulletin boards, chat rooms, etc. on the Internet. The SHA ...

**Keywords:** distributed and parallel systems, language design and implementation, persistence, world wide web

12 [The many faces of publish/subscribe](#)



Patrick Th. Eugster, Pascal A. Felber, Rachid Guerraoui, Anne-Marie Kermarrec

June 2003 **ACM Computing Surveys (CSUR)**, Volume 35 Issue 2

**Publisher:** ACM Press

Full text available: [pdf\(456.46 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Well adapted to the loosely coupled nature of distributed interaction in large-scale applications, the publish/subscribe communication paradigm has recently received increasing attention. With systems based on the publish/subscribe interaction scheme, subscribers register their interest in an event, or a pattern of events, and are subsequently asynchronously notified of events generated by publishers. Many variants of the paradigm have recently been proposed, each variant being specifically adap ...

**Keywords:** Distribution, interaction, publish/subscribe

13 [The Web Service Discovery Architecture](#)

Wolfgang Hoschek

November 2002 **Proceedings of the 2002 ACM/IEEE conference on Supercomputing**

**Publisher:** IEEE Computer Society Press

Full text available: [pdf\(282.28 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In this paper, we propose the Web Service Discovery Architecture (WSDA). At runtime,

Grid applications can use this architecture to discover and adapt to remote services. WSDA promotes an interoperable web service discovery layer by defining appropriate services, interfaces, operations and protocol bindings, based on industry standards. It is unified because it subsumes an array of disparate concepts, interfaces and protocols under a single semi-transparent umbrella. It is modular because it def ...

**14 The process group approach to reliable distributed computing**

 Kenneth P. Birman

December 1993 **Communications of the ACM**, Volume 36 Issue 12

**Publisher:** ACM Press

Full text available:  [pdf\(6.00 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)



**Keywords:** fault-tolerant process groups, message ordering, multicast communication

**15 Pen computing: a technology overview and a vision**

 André Meyer

July 1995 **ACM SIGCHI Bulletin**, Volume 27 Issue 3

**Publisher:** ACM Press

Full text available:  [pdf\(5.14 MB\)](#) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)



This work gives an overview of a new technology that is attracting growing interest in public as well as in the computer industry itself. The visible difference from other technologies is in the use of a pen or pencil as the primary means of interaction between a user and a machine, picking up the familiar pen and paper interface metaphor. From this follows a set of consequences that will be analyzed and put into context with other emerging technologies and visions. Starting with a short historic ...

**16 A Self-Organizing Storage Cluster for Parallel Data-Intensive Applications**

Hong Tang, Aziz Gulbeden, Jingyu Zhou, William Strathern, Tao Yang, Lingkun Chu

November 2004 **Proceedings of the 2004 ACM/IEEE conference on Supercomputing**

**Publisher:** IEEE Computer Society

Full text available:  [pdf\(330.26 KB\)](#) Additional Information: [full citation](#), [abstract](#)



Cluster-based storage systems are popular for data-intensive applications and it is desirable yet challenging to provide incremental expansion and high availability while achieving scalability and strong consistency. This paper presents the design and implementation of a self-organizing storage cluster called Sorrento, which targets data-intensive workload with highly parallel requests and low write-sharing patterns. Sorrento automatically adapts to storage node joins and departures, and the sys ...

**17 Building efficient wireless sensor networks with low-level naming**

 John Heldemann, Fabio Silva, Chalermek Intanagonwiwat, Ramesh Govindan, Deborah

Estrin, Deepak Ganesan

October 2001 **ACM SIGOPS Operating Systems Review, Proceedings of the eighteenth ACM symposium on Operating systems principles SOSP '01**, Volume 35 Issue 5

**Publisher:** ACM Press

Full text available:  [pdf\(1.54 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)



In most distributed systems, naming of nodes for low-level communication leverages topological location (such as node addresses) and is independent of any application. In this paper, we investigate an emerging class of distributed systems where low-level communication does not rely on network topological location. Rather, low-level

communication is based on attributes that are *external* to the network topology and *relevant* to the application. When combined with dense deployment of n ...

18 [Report on the seventh ACM SIGOPS European workshop: systems support for worldwide applications](#)

 Andrew S. Tanenbaum  
January 1997 **ACM SIGOPS Operating Systems Review**, Volume 31 Issue 1

**Publisher:** ACM Press

Full text available:  pdf(923.32 KB) Additional Information: [full citation](#), [index terms](#)

19 [Middleware for mobility: SyD: a middleware testbed for collaborative applications over small heterogeneous devices and data stores](#)

Sushil K. Prasad, Vijay Madisetti, Shamkant B. Navathe, Raj Sunderraman, Erdogan Dogdu, Anu Bourgeois, Michael Weeks, Bing Liu, Janaka Balasooriya, Arthi Hariharan, Wanxia Xie, Praveen Madiraju, Srilaxmi Malladi, Raghupathy Sivakumar, Alex Zelikovsky, Yanqing Zhang, Yi Pan, Saied Belkasim

October 2004 **Proceedings of the 5th ACM/IFIP/USENIX international conference on Middleware**

**Publisher:** Springer-Verlag New York, Inc.

Full text available:  pdf(441.56 KB) Additional Information: [full citation](#), [abstract](#), [references](#)

Developing a collaborative application running on a collection of heterogeneous, possibly mobile, devices, each potentially hosting data stores, using existing middleware technologies such as JXTA, BREW, compact .NET and J2ME requires too many ad-hoc techniques as well as cumbersome and time-consuming programming. Our System on Mobile Devices (SyD) middleware, on the other hand, has a modular architecture that makes such application development very systematic and streamlined. The architecture s ...

**Keywords:** SyD coordination bonds, application-level QoS, atomic transactions, mobile servers, object and web service coordination

20 [Model-driven design and deployment of service-enabled web applications](#)

 Ioana Manolescu, Marco Brambilla, Stefano Ceri, Sara Comai, Piero Fraternali  
August 2005 **ACM Transactions on Internet Technology (TOIT)**, Volume 5 Issue 3

**Publisher:** ACM Press

Full text available:  pdf(3.07 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Significant effort is currently invested in application integration, enabling business processes of different companies to interact and form complex multiparty processes. Web service standards, based on WSDL (Web Service Definition Language), have been adopted as process-to-process communication paradigms. However, the conceptual modeling of applications using Web services has not yet been addressed. Interaction with Web services is often specified at the level of the source code; thus, Web serv ...

**Keywords:** UML, Web application, Web services, WebML, modeling

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Christopher K. Hess, Roy H. Campbell

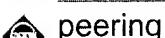
December 2003 **Personal and Ubiquitous Computing**, Volume 7 Issue 6

Publisher: Springer-Verlag

Full text available:  [pdf\(383.26 KB\)](#) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

Ubiquitous computing environments stretch the requirements of traditional infrastructures used to facilitate the development of applications. Activities are often supported by collections of applications, some of which are automatically launched with little or no human intervention. This task-driven environment challenges existing application construction and data management techniques. In this paper, we describe a file system that organises application data based on contextual information, impo ...

**Keywords:** Context, Data management, File systems, Operating systems, Ubiquitous computing spaces

**22** [Scheduling and resource allocation: SHARP: an architecture for secure resource](#)

Yun Fu, Jeffrey Chase, Brent Chun, Stephen Schwab, Amin Vahdat

October 2003 **Proceedings of the nineteenth ACM symposium on Operating systems principles**

Publisher: ACM Press

Full text available:  [pdf\(339.51 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper presents Sharp, a framework for secure distributed resource management in an Internet-scale computing infrastructure. The cornerstone of Sharp is a construct to represent cryptographically protected resource <it>claims</it>---promises or rights to control resources for designated time intervals---together with secure mechanisms to subdivide and delegate claims across a network of resource managers. These mechanisms enable flexible <it>resource peeri ...

**Keywords:** peer-to-peer, resource allocation, resource peering

**23**[Overlay networks, scalability and internet economics: Location based placement of](#)

 **whole distributed systems**

David Spence, Jon Crowcroft, Steven Hand, Tim Harris

October 2005 **Proceedings of the 2005 ACM conference on Emerging network experiment and technology CoNEXT'05****Publisher:** ACM PressFull text available:  [pdf\(298.25 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The high bandwidth and low latency of the modern internet has made possible the deployment of *distributed computing platforms*. The *XenoServe* platform provides a distributed computing platform open to all and presents three major new challenges for resource discovery: Firstly, network location is key for effectively provisioning services, to mitigate against high-latency, high-load or component failure. Secondly, many services require a presence on several servers, with inter-relate ...

**Keywords:** location systems, peer-to-peer, resource discovery**24 Mobile computing: DataMan project perspective** 

Tomasz Imielinski

December 1996 **Mobile Networks and Applications**, Volume 1 Issue 4**Publisher:** Kluwer Academic PublishersFull text available:  [pdf\(239.53 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The objective of mobile computing is to develop system and application level software for small, battery powered terminals equipped with the wireless network connection. There is a rapidly growing interest in this field with companies spending billions of dollars developing technology and buying spectrum in the recent PCS auctions. In this paper we offer a perspective of mobile computing from the standpoint of our own research project at Rutgers University. The DataMan project (T.Imielinski ...

**25 Mobile computing and applications (MCA): Object-oriented middleware for location-aware systems**  Riku Järvensivu, Risto Pitkänen, Tommi MikkonenMarch 2004 **Proceedings of the 2004 ACM symposium on Applied computing****Publisher:** ACM PressFull text available:  [pdf\(1.32 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

Location-based systems are often aiming at the separation of the concept of location to a particular system, or, alternatively, treat location as yet another issue that should be fit into a larger prescribed application framework. This may lead to increasingly complex system architectures, when application logic uses location only as a facility. As a solution that gathers the best sides of both approaches, we propose an approach where object-oriented middleware is used for handling location-base ...

**Keywords:** location-based services, location-based systems, object-oriented middleware, software architecture**26 Recovery guarantees for Internet applications**  Roger Barga, David Lomet, German Shegalov, Gerhard WeikumAugust 2004 **ACM Transactions on Internet Technology (TOIT)**, Volume 4 Issue 3**Publisher:** ACM PressFull text available:  [pdf\(997.52 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Internet-based e-services require application developers to deal explicitly with failures of the underlying software components, for example web servers, servlets, browser sessions, and so forth. This complicates application programming, and may expose

failures to end users. This paper presents a framework for an application-independent infrastructure that provides recovery guarantees and masks almost all system failures, thus relieving the application programmer from having to deal with these f ...

**Keywords:** Exactly-once execution, application recovery, communication protocols, interaction contracts

27 [Cluster-based scalable network services](#)

 Armando Fox, Steven D. Gribble, Yatin Chawathe, Eric A. Brewer, Paul Gauthier

October 1997 **ACM SIGOPS Operating Systems Review, Proceedings of the sixteenth ACM symposium on Operating systems principles SOSP '97**, Volume 31 Issue 5

**Publisher:** ACM Press

Full text available:  [pdf\(2.42 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

28 [Supporting service discovery, querying and interaction in ubiquitous computing environments](#)

Adrian Friday, Nigel Davies, Nat Wallbank, Elaine Catterall, Stephen Pink

November 2004 **Wireless Networks**, Volume 10 Issue 6

**Publisher:** Kluwer Academic Publishers

Full text available:  [pdf\(209.21 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In this paper, we contend that ubiquitous computing environments will be highly heterogeneous, service rich domains. Moreover, future applications will consequently be required to interact with multiple, specialised service location and interaction protocols simultaneously. We argue that existing service discovery techniques do not provide sufficient support to address the challenges of building applications targeted to these emerging environments.

This paper makes a number of contribu ...

**Keywords:** distributed systems, middleware, mobile and ubiquitous computing, service discovery, service interaction

29 [Invited paper: Middleware and web services for the collaborative information portal of NASA's Mars exploration rovers mission](#)

Elias Sinderson, Vish Magapu, Ronald Mak

October 2004 **Proceedings of the 5th ACM/IFIP/USENIX international conference on Middleware**

**Publisher:** Springer-Verlag New York, Inc.

Full text available:  [pdf\(428.63 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

We describe the design and deployment of the middleware for the Collaborative Information Portal (CIP), a mission critical J2EE application developed for NASA's 2003 Mars Exploration Rover mission. CIP enabled mission personnel to access data and images sent back from Mars, staff and event schedules, broadcast messages and clocks displaying various Earth and Mars time zones. We developed the CIP middleware in less than two years time using cutting-edge technologies, including EJBs, servlets, JDB ...

30 [An Efficient Data Location Protocol for Self-organizing Storage Clusters](#)

Hong Tang, Tao Yang

November 2003 **Proceedings of the 2003 ACM/IEEE conference on Supercomputing**

**Publisher:** IEEE Computer Society

Full text available:  pdf(345.61 KB) Additional Information: [full citation](#), [abstract](#)

Component additions and failures are common for large-scale storage clusters in production environments. To improve availability and manageability, we investigate and compare data location schemes for a large self-organizing storage cluster that can quickly adapt to the additions or departures of storage nodes. We further present an efficient location scheme that differentiates between small and large file blocks for reduced management overhead compared to uniform strategies. In our protocol, sm ...

**31 Exploiting virtual synchrony in distributed systems** 

 K. Birman, T. Joseph

November 1987 **ACM SIGOPS Operating Systems Review , Proceedings of the eleventh ACM Symposium on Operating systems principles SOSP '87**, Volume 21

Issue 5

**Publisher:** ACM Press

Full text available:  pdf(1.36 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We describe applications of a virtually synchronous environment for distributed programming, which underlies a collection of distributed programming tools in the ISIS2 system. A virtually synchronous environment allows processes to be structured into process groups, and makes events like broadcasts to the group as an entity, group membership changes, and even migration of an activity from one place to another appear to ...

**32 A framework for scalable dissemination-based systems** 

 Michael Franklin, Stanley Zdonik

October 1997 **ACM SIGPLAN Notices , Proceedings of the 12th ACM SIGPLAN conference on Object-oriented programming, systems, languages, and applications OOPSLA '97**, Volume 32 Issue 10

**Publisher:** ACM Press

Full text available:  pdf(1.79 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The dramatic improvements in global interconnectivity due to intranets, extranets, and the Internet has led to an explosion in the number and variety of new data-intensive applications. Along with the proliferation of these new applications have come increased problems of scale. This is demonstrated by frequent delays and service disruptions when accessing networked data sources. Recently, push-based techniques have been proposed as a solution to scalability problems for distributed application ...

**33 Sensornet services: TSAR: a two tier sensor storage architecture using interval skip** 

 graphs

Peter Desnoyers, Deepak Ganesan, Prashant Shenoy

November 2005 **Proceedings of the 3rd international conference on Embedded networked sensor systems SenSys '05**

**Publisher:** ACM Press

Full text available:  pdf(444.47 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Archival storage of sensor data is necessary for applications that query, mine, and analyze such data for interesting features and trends. We argue that existing storage systems are designed primarily for flat hierarchies of homogeneous sensor nodes and do not fully exploit the multi-tier nature of emerging sensor networks, where an application can comprise tens of tethered proxies, each managing tens to hundreds of untethered sensors. We present *TSAR*, a fundamentally different storage ar ...

**Keywords:** archival storage, indexing methods, wireless sensor networks

34 Extending the Representational State Transfer (REST) Architectural Style for Decentralized Systems

Rohit Khare, Richard N. Taylor

May 2004 **Proceedings of the 26th International Conference on Software Engineering ICSE '04**

**Publisher:** IEEE Computer Society

Full text available:  [pdf\(1.13 MB\)](#) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

Because it takes time and trust to establish agreement, traditional consensus-based architectural styles cannot safely accommodate resources that change faster than it takes to transmit notification of that change, nor resources that must be shared across independent agencies. The alternative is decentralization: permitting independent agencies to make their own decisions. Our definition contrasts with that of distribution, in which several agents share control of a single decision. Ultimately, the physi ...

35 Supporting mobility in publish/subscribe middleware: Looking into the past:

 enhancing mobile publish/subscribe middleware

M. Cilia, L. Fiege, C. Haul, A. Zeidler, A. P. Buchmann

June 2003 **Proceedings of the 2nd international workshop on Distributed event-based systems**

**Publisher:** ACM Press

Full text available:  [pdf\(202.90 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

Publish/subscribe (pub/sub) middleware facilitates loosely coupled cooperation and fits well the needs of spontaneous, ad-hoc interaction. However, newly started mobile applications have to be bootstrapped to interpret the current flow of notifications correctly and commence normal operation. This problem is aggravated in mobile environments where disconnections and context changes occur frequently. In this paper, we propose two forms of subscriptions that allow consumers to subscribe to past eve ...

36 Measurements and analysis: ATMEN: a triggered network measurement

 infrastructure

Balachander Krishnamurthy, Harsha V. Madhyastha, Oliver Spatscheck

May 2005 **Proceedings of the 14th international conference on World Wide Web**

**Publisher:** ACM Press

Full text available:  [pdf\(455.88 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Web performance measurements and availability tests have been carried out using a variety of infrastructures over the last several years. Disruptions in the Internet can lead to Web sites being unavailable or increase user-perceived latency. The unavailability could be due to DNS, failures in segments of the physical network cutting off thousands of users, or attacks. Prompt reactions to network-wide events can be facilitated by local or remote measurement and monitoring. Better yet, a distribut ...

**Keywords:** DNS availability, measurement, measurement infrastructure, performance-based ranking, reuse, triggered measurements

37 Operating systems for sensor networks: Design and implementation of a single

 system image operating system for ad hoc networks

Hongzhou Liu, Tom Roeder, Kevin Walsh, Rimon Barr, Emin Gün Sirer

June 2005 **Proceedings of the 3rd international conference on Mobile systems, applications, and services MobiSys '05**

**Publisher:** ACM Press

Full text available:  pdf(261.28 KB) Additional Information: [full citation](#), [abstract](#), [references](#)

In this paper, we describe the design and implementation of a distributed operating system for ad hoc networks. Our system simplifies the programming of ad hoc networks and extends total system lifetime by making the entire network appear as a single virtual machine. It automatically and transparently partitions applications into components and dynamically finds them a placement on nodes within the network to reduce energy consumption and to increase system longevity. This paper describes our pr ...

38 [Workshop on compositional software architectures: workshop report](#) 

 May 1998 **ACM SIGSOFT Software Engineering Notes**, Volume 23 Issue 3

Publisher: ACM Press

Full text available:  pdf(2.91 MB) Additional Information: [full citation](#), [index terms](#)

39 [Experiences with building distributed debuggers](#) 

 Michael S. Meier, Kevan L. Miller, Donald P. Pazel, Josyula R. Rao, James R. Russell

January 1996 **Proceedings of the SIGMETRICS symposium on Parallel and distributed tools**

Publisher: ACM Press

Full text available:  pdf(1.34 MB) Additional Information: [full citation](#), [references](#), [index terms](#)

40 [The mobile agent technology to support and to access museum information](#) 

 Paolo Bellavista, Antonio Corradi, Andrea Tomasi

March 2000 **Proceedings of the 2000 ACM symposium on Applied computing - Volume 2**

Publisher: ACM Press

Full text available:  pdf(1.27 MB) Additional Information: [full citation](#), [references](#), [index terms](#)

**Keywords:** Internet services, Web accessibility, asynchronicity, heterogeneous data resources, mobile agents, virtual museums

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Relevance scale


**41** [Optimistic replication](#)
[Yasushi Saito, Marc Shapiro](#)
[March 2005 ACM Computing Surveys \(CSUR\)](#), Volume 37 Issue 1

**Publisher:** ACM Press

 Full text available: [pdf\(656.72 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Data replication is a key technology in distributed systems that enables higher availability and performance. This article surveys optimistic replication algorithms. They allow replica contents to diverge in the short term to support concurrent work practices and tolerate failures in low-quality communication links. The importance of such techniques is increasing as collaboration through wide-area and mobile networks becomes popular. Optimistic replication deploys algorithms not seen in tradition ...

**Keywords:** Replication, disconnected operation, distributed systems, large scale systems, optimistic techniques


**42** [Mobility: Flexible on-device service object replication with replets](#)
[Dong Zhou, Nayeem Islam, Ali Ismael](#)
[May 2004 Proceedings of the 13th international conference on World Wide Web WWW '04](#)
**Publisher:** ACM Press

 Full text available: [pdf\(887.11 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

An increasingly large amount of Web applications employ service objects such as Servlets to generate dynamic and personalized content. Existing caching infrastructures are not well suited for caching such content in mobile environments because of disconnection and weak connection. One possible approach to this problem is to replicate Web-related application logic to client devices. The challenges to this approach are to deal with client devices that exhibit huge divergence in resource ...

**Keywords:** capability, preference, reconfiguration, replication, service, synchronization


**43** [InfoSleuth: agent-based semantic integration of information in open and dynamic environments](#)

R. J. Bayardo, W. Bohrer, R. Brice, A. Cichocki, J. Fowler, A. Helal, V. Kashyap, T. Ksiezyk, G.

Martin, M. Nodine, M. Rashid, M. Rusinkiewicz, R. Shea, C. Unnikrishnan, A. Unruh, D. Woelk  
 June 1997 **ACM SIGMOD Record , Proceedings of the 1997 ACM SIGMOD international conference on Management of data SIGMOD '97**, Volume 26 Issue 2

Publisher: ACM Press

Full text available:  pdf(1.69 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The goal of the InfoSleuth project at MCC is to exploit and synthesize new technologies into a unified system that retrieves and processes information in an ever-changing network of information sources. InfoSleuth has its roots in the Carnot project at MCC, which specialized in integrating heterogeneous information bases. However, recent emerging technologies such as internetworking and the World Wide Web have significantly expanded the types, availability, and volume of data available to a ...

**44 Adding High Availability and Autonomic Behavior to Web Services** 

Ken Birman, Robbert van Renesse, Werner Vogels

May 2004 **Proceedings of the 26th International Conference on Software Engineering ICSE '04**

Publisher: IEEE Computer Society

Full text available:  pdf(222.11 KB) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

Rapid acceptance of the Web Services architecture promises to make it the most widely supported and popular object-oriented architecture to date. One consequence is that a wave of mission-critical Web Services applications will certainly be deployed incoming years. Yet the reliability options available within Web Services are limited in important ways. To use a term proposed by IBM, Web Services systems need to become far more "autonomic," configuring themselves, diagnosing faults, and managing themselves ...

**45 An XML query engine for network-bound data** 

Zachary G. Ives, A. Y. Halevy, D. S. Weld

December 2002 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 11 Issue 4

Publisher: Springer-Verlag New York, Inc.

Full text available:  pdf(351.86 KB) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

XML has become the lingua franca for data exchange and integration across administrative and enterprise boundaries. Nearly all data providers are adding XML import or export capabilities, and standard XML Schemas and DTDs are being promoted for all types of data sharing. The ubiquity of XML has removed one of the major obstacles to integrating data from widely disparate sources - namely, the heterogeneity of data formats. However, general-purpose integration of data across the wide are also re ...

**Keywords:** Data integration, Data streams, Query processing, Web and databases, XML

**46 The design and implementation of an intentional naming system** 

 William Adjie-Winoto, Elliot Schwartz, Hari Balakrishnan, Jeremy Lilley

December 1999 **ACM SIGOPS Operating Systems Review , Proceedings of the seventeenth ACM symposium on Operating systems principles SOSP '99**, Volume 33 Issue 5

Publisher: ACM Press

Full text available:  pdf(1.77 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper presents the design and implementation of the Intentional Naming System (INS), a resource discovery and service location system for dynamic and mobile networks of devices and computers. Such environments require a naming system that is (i) expressive, to describe and make requests based on specific properties of services, (ii)

responsive, to track changes due to mobility and performance, (iii) robust, to handle failures, and (iv) easily configurable. INS uses a simple language based o ...

47 [VIRTUS: a collaborative multi-user platform](#)

 Kurt Saar

February 1999 **Proceedings of the fourth symposium on Virtual reality modeling language**

**Publisher:** ACM Press

Full text available:  [pdf\(4.09 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

**Keywords:** VRML, VRML event model, architecture construction engineering (ACE), collaborative virtual environment (CVE), computer supported collaborative work (CSCW), dead reckoning, distributed environments, living worlds, multi-user technologies, virtual environments, virtual worlds

48 [Supporting cooperative and personal surfing with a desktop assistant](#)

 Hannes Marais, Krishna Bharat

October 1997 **Proceedings of the 10th annual ACM symposium on User interface software and technology**

**Publisher:** ACM Press

Full text available:  [pdf\(1.37 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

**Keywords:** WWW, annotation, asynchronous, barcodes, bookmarks, browser, browserware, collaboration, community knowledge, desktop assistant, indexing

49 [Evolutionary and efficient context management in heterogeneous environments](#)

 Ricardo Couto A. da Rocha, Markus Endler

November 2005 **Proceedings of the 3rd international workshop on Middleware for pervasive and ad-hoc computing MPAC '05**

**Publisher:** ACM Press

Full text available:  [pdf\(305.11 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Mobile computing and pervasive environments are mainly characterized by heterogeneity of devices, with different capabilities, resources, operating systems and applications. In a realistic scenario for context-aware computing, middleware should be deployable in the whole distributed system, despite device's resource limitations, and the developer should be able to evolve the context model when new context-aware applications or context providers are introduced. This paper discusses how context mo ...

**Keywords:** context management, context modeling, context-awareness, middleware, middleware design

50 [Network servers for symbolic mathematics](#)

 Richard J. Fateman

July 1997 **Proceedings of the 1997 international symposium on Symbolic and algebraic computation**

**Publisher:** ACM Press

Full text available:  [pdf\(988.80 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

51 [Web-based simulation: Web-based simulation 2: the ABELS system: designing an adaptable interface for linking simulations](#)

G. Ayorkor Mills-Tettey, Greg Johnston, Linda F. Wilson, Joseph M. Kimpel, Bin Xie  
 December 2002 **Proceedings of the 34th conference on Winter simulation: exploring new frontiers**

Publisher: Winter Simulation Conference

Full text available: [A pdf\(211.22 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

The Agent-Based Environment for Linking Simulations (ABELS) provides a framework to facilitate the dynamic exchange of data between distributed simulations and other remote data resources. Specifically, the framework allows the formation of a dynamic "data and simulation cloud" that links a heterogeneous collection of networked resources. ABELS consists of three major components: user entities that serve as data producers and/or consumers, a brokering system for organizing and linking the var ...

52 [Performance evaluation of software architecture: Understanding consistency](#)

 [maintenance in service discovery architectures during communication failure](#)

Christopher Dabrowski, Kevin Mills, Jesse Elder

July 2002 **Proceedings of the 3rd international workshop on Software and performance WOSP '02**

Publisher: ACM Press

Full text available: [A pdf\(161.78 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Current trends suggest future software systems will comprise collections of components that combine and recombine dynamically in reaction to changing conditions. Service-discovery protocols, which enable software components to locate available software services and to adapt to changing system topology, provide one foundation for such dynamic behavior. Emerging discovery protocols specify alternative architectures and behaviors, which motivate a rigorous investigation of the properties underlying ...

53 [Summary of the sigmetrics symposium on parallel and distributed processing](#)

 Jeffrey K. Hillingsworth, Barton P. Miller

March 1999 **ACM SIGMETRICS Performance Evaluation Review**, Volume 26 Issue 4

Publisher: ACM Press

Full text available: [A pdf\(1.17 MB\)](#) Additional Information: [full citation](#), [index terms](#)

54 [Research sessions: stream QP: Adaptive ordering of pipelined stream filters](#)

 Shivnath Babu, Rajeev Motwani, Kamesh Munagala, Itaru Nishizawa, Jennifer Widom

June 2004 **Proceedings of the 2004 ACM SIGMOD international conference on Management of data**

Publisher: ACM Press

Full text available: [A pdf\(534.72 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

We consider the problem of *pipelined filters*, where a continuous stream of tuples is processed by a set of commutative filters. Pipelined filters are common in stream applications and capture a large class of multiway stream joins. We focus on the problem of ordering the filters adaptively to minimize processing cost in an environment where stream and filter characteristics vary unpredictably over time. Our core algorithm, *A-Greedy* (for *Adaptive Greedy*), has strong theoretic ...

55 [Industrial practice I: Internet delivery of meteorological and oceanographic data in wide area naval usage environments](#)

Udaykiran Katikaneni, Roy Ladner, Frederick Petry  
May 2004 **Proceedings of the 13th international World Wide Web conference on Alternate track papers & posters**

**Publisher:** ACM Press

Full text available: [pdf\(214.06 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Access and retrieval of meteorological and oceanographic data from heterogeneous sources in a distributed system presents many issues. Effective bandwidth utilization is important for any distributed system. In addition, specific issues need to be addressed in order to assimilate spatio-temporal data from multiple sources. These issues include resolution of differences in datum, map-projection and time coordinate. Reduction in the complexity of data formats is a significant factor for fostering ...

**Keywords:** meteorological and oceanographic data, resumable object streams

**56 Architectural design of a multi-agent system for handling metadata streams**

Don Cruickshank, Luc Moreau, David De Roure  
May 2001 **Proceedings of the fifth international conference on Autonomous agents**

**Publisher:** ACM Press

Full text available: [pdf\(211.00 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We have designed a multi-agent architecture to deliver metadata streams synchronously with multimedia streams over a wide-area network. To this end, we have devised a simple protocol for synchronising agents to a media clock. This protocol defines the concept of a deadline, after which servers can drop data because it can no longer reach clients in time. We also introduce a new concept of a contract as a first-class entity representing a successful subscription; a contract is used by a ...

**57 Middleware for context sensitive mobile applications**

K. A. Hawick, H. A. James

January 2003 **Proceedings of the Australasian information security workshop conference on ACSW frontiers 2003 - Volume 21 CRPITS '03**

**Publisher:** Australian Computer Society, Inc.

Full text available: [pdf\(916.67 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Contextual information such as spatial location can significantly enhance the utility of mobile applications. We introduce the concept of active preferences that represent a combination of user preference information and choices combined with spatial or temporal information. Active preferences set the policy on how a mobile application should customise its behaviour not just for a particular user but as that user moves to different locations and interacts with other mobile users or with fixed ...

**Keywords:** location context, middleware, mobile devices, personal context

**58 Technical Session: Supporting ubiquitous computing through directory enabled technologies**

Michael Richichi, Paul Coen  
October 2001 **Proceedings of the 29th annual ACM SIGUCCS conference on User services**

**Publisher:** ACM Press

Full text available: [pdf\(285.27 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Drew has been providing computers to students since 1984. Many universities have

ubiquitous computing programs where students receive a laptop computer as part of their educational package. These programs reduce the dependence on and management issues of traditional computer labs, and allow 24x7 computing access to every student at the University. Drew also provides Novell Directory Services (NDS) accounts to all of these students, and utilizes Novell ZENworks to customize software, personalize ...

**Keywords:** LDAP, ZENworks, directory services, eDirectory, laptop programs, management, ubiquitous computing

59 [Technical session 7: multimedia systems: A general framework for multidimensional adaptation](#) 

 David Gotz, Ketan Mayer-Patel  
October 2004 **Proceedings of the 12th annual ACM international conference on Multimedia**

**Publisher:** ACM Press

Full text available:  pdf(420.02 KB) Additional Information: [full citation](#), [references](#), [index terms](#)

**Keywords:** adaptation, multimedia

60 [Data replication for mobile computers](#) 

 Yixiu Huang, Prasad Sistla, Ouri Wolfson  
May 1994 **ACM SIGMOD Record , Proceedings of the 1994 ACM SIGMOD international conference on Management of data SIGMOD '94**, Volume 23 Issue 2

**Publisher:** ACM Press

Full text available:  pdf(1.30 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Users of mobile computers will soon have online access to a large number of databases via wireless networks. Because of limited bandwidth, wireless communication is more expensive than wire communication. In this paper we present and analyze various static and dynamic data allocation methods. The objective is to optimize the communication cost between a mobile computer and the stationary computer that stores the online database. Analysis is performed in two cost models. One is connection (o ...

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Relevance scale


**61 [Multiresolution storage and search in sensor networks](#)**

 Deepak Ganesan, Ben Greenstein, Deborah Estrin, John Heidemann, Ramesh Govindan  
August 2005 **ACM Transactions on Storage (TOS)**, Volume 1 Issue 3

Publisher: ACM Press

Full text available: [pdf\(1.55 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Wireless sensor networks enable dense sensing of the environment, offering unprecedented opportunities for observing the physical world. This article addresses two key challenges in wireless sensor networks: in-network storage and distributed search. The need for these techniques arises from the inability to provide persistent, centralized storage and querying in many sensor networks. Centralized storage requires multihop transmission of sensor data to Internet gateways which can quickly drain b ...

**Keywords:** Wireless sensor networks, data aging, data storage, drill-down query, multiresolution storage, wavelet processing


**62 [Adapting the web interface: an adaptive web browser](#)**

K. Henricksen, J. Indulska

January 2001 **Australian Computer Science Communications , Proceedings of the 2nd Australasian conference on User interface AUIC '01**, Volume 23 Issue 5

Publisher: IEEE Computer Society , IEEE Computer Society Press

Full text available: [pdf\(1.01 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)  
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The growing number of mobile computing devices with diverse characteristics creates a requirement for seamless (device independent) access to computing resources of distributed systems. One of the most common applications in distributed systems is the Web browser, which is not only used to access resources on the Internet but also as an interface to many Information Systems applications. In this paper, we address types of adaptation that can be applied to a Web browser in response to diverse con ...


**63 [Computer-supported cooperative work: Supporting configuration management for virtual workgroups in a peer-to-peer setting](#)**

Davide Balzarotti, Carlo Ghezzi, Mattia Monga

July 2002 **Proceedings of the 14th international conference on Software engineering and knowledge engineering SEKE '02**

**Publisher:** ACM PressFull text available:  [pdf\(155.60 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In this paper we describe a configuration management tool suitable for the untethered scenarios typical in a mobile environment. The scenario envisions a number of homogeneous peers that are able to provide the same services, disconnect frequently from the net, and perform part of their work while disconnected. In these contexts the absence of a host is not the exceptional case, but rather the normal behavior. Thus, a traditional architecture based on a central repository exposes the system to f ...

**Keywords:** Mobile computing, middleware, peer-to-peer**64 Efficient and flexible location management techniques for wireless communication**

systems  
Jan Jannink, Derek Lam, Jennifer Widom, Donald C. Cox, Narayanan Shnivakumar  
November 1996 **Proceedings of the 2nd annual international conference on Mobile computing and networking**

**Publisher:** ACM PressFull text available:  [pdf\(1.27 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)**65 CSCW and the Internet**

Sara Bly, Susan Anderson  
December 1996 **ACM SIGOIS Bulletin**, Volume 17 Issue 3

**Publisher:** ACM PressFull text available:  [pdf\(1.90 MB\)](#) Additional Information: [full citation](#), [index terms](#)**66 Towards a taxonomy of software connectors**

Nikunj R. Mehta, Nenad Medvidovic, Sandeep Phadke  
June 2000 **Proceedings of the 22nd international conference on Software engineering**

**Publisher:** ACM PressFull text available:  [pdf\(184.27 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Software systems of today are frequently composed from prefabricated, heterogeneous components that provide complex functionality and engage in complex interactions. Existing research on component-based development has mostly focused on component structure, interfaces, and functionality. Recently, software architecture has emerged as an area that also places significant importance on component interactions, embodied in the notion of software connectors. However, the current level of underst ...

**Keywords:** classification, software architecture, software connector, taxonomy**67 Groupware infrastructure: Clover architecture for groupware**

Yann Laurillau, Laurence Nigay  
November 2002 **Proceedings of the 2002 ACM conference on Computer supported cooperative work**

**Publisher:** ACM PressFull text available:  [pdf\(517.26 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In this paper we present the Clover architectural model, a new conceptual architectural

model for groupware. Our model results from the combination of the layer approach of Dewan's generic architecture with the functional decomposition of the Clover design model. The Clover design model defines three classes of services that a groupware application may support, namely, production, communication and coordination services. The three classes of services can be found in each functional layer of our ...

**Keywords:** clover design model, conceptual software architecture

**68 Session 3: mobility: Egocentric context-aware programming in ad hoc mobile environments**

 Christine Julien, Gruia Catalin Roman  
November 2002 **ACM SIGSOFT Software Engineering Notes**, Volume 27 Issue 6

**Publisher:** ACM Press

Full text available:  [pdf\(1.24 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Some of the most dynamic systems being built today consist of physically mobile hosts and logically mobile agents. Such systems exhibit frequent configuration changes and a great deal of resource variability. Applications executing under these circumstances need to react continuously and rapidly to changes in operating conditions and must adapt their behavior accordingly. The development of such applications demands a reexamination of the notion of context and the mechanisms used to manage the a ...

**Keywords:** ad hoc network, context-aware, coordination, mobility, scalability

**69 Mobility: Egocentric context-aware programming in ad hoc mobile environments**

 Christine Julien, Gruia-Catalin Roman  
November 2002 **Proceedings of the 10th ACM SIGSOFT symposium on Foundations of software engineering**

**Publisher:** ACM Press

Full text available:  [pdf\(482.04 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Some of the most dynamic systems being built today consist of physically mobile hosts and logically mobile agents. Such systems exhibit frequent configuration changes and a great deal of resource variability. Applications executing under these circumstances need to react continuously and rapidly to changes in operating conditions and must adapt their behavior accordingly. The development of such applications demands a reexamination of the notion of context and the mechanisms used to manage the a ...

**Keywords:** ad hoc network, context-aware, coordination, mobility, scalability

**70 A hierarchical multicast monitoring scheme**

 Joerg Walz, Brian Neil Levine  
November 2000 **Proceedings of NGC 2000 on Networked group communication**

**Publisher:** ACM Press

Full text available:  [pdf\(1.29 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Deployment of multicast routing services in corporate networks and Internet Service Providers is still tentative. Among other problems, there is a lack of monitoring and management tools and systems. Previous work in multicast management has failed to address the scalability problem present in multicast fault isolation and reporting. We propose a hierarchical, passive monitoring scheme, HPMM, that relies on a series of pre-deployed, self-organized monitoring daemons. With HPMM, fault message ...

71 Next century challenges: data-centric networking for invisible computing: the Portolano project at the University of Washington

 Mike Esler, Jeffrey Hightower, Tom Anderson, Gaetano Borriello

August 1999 **Proceedings of the 5th annual ACM/IEEE international conference on Mobile computing and networking**

**Publisher:** ACM Press

Full text available:  pdf(1.03 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)



72 Repository architectures: Architecting an extensible digital repository

 Anoop Kumar, Ranjani Saigal, Robert Chavez, Nikolai Schwertner

June 2004 **Proceedings of the 4th ACM/IEEE-CS joint conference on Digital libraries**

**Publisher:** ACM Press

Full text available:  pdf(523.30 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The Digital Collection and Archives (DCA) in partnership with Academic Technology (AT) at Tufts University developed a digital library solution for long-term storage and integration of existing digital collections, such as Perseus, TUSK, Bolles and Artifact. In this paper, we describe the Tufts Digital Library (TDL) architecture TDL is an extensible, modular, flexible and scalable architecture that uses Fedora at its core. The extensible nature of the TDL architecture allows for seamless integra ...

**Keywords:** VUE, digital library, fedora, preservation



73 Requirements for distributed authoring and versioning on the World Wide Web

 J. A. Stein, F. Vitali, E. J. Whitehead, D. G. Durand

March 1997 **StandardView**, Volume 5 Issue 1

**Publisher:** ACM Press

Full text available:  pdf(96.62 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)



74 Data protection and data sharing in telematics

Sastry Duri, Jeffrey Elliott, Marco Gruteser, Xuan Liu, Paul Moskowitz, Ronald Perez, Moninder Singh, Jung-Mu Tang

December 2004 **Mobile Networks and Applications**, Volume 9 Issue 6

**Publisher:** Kluwer Academic Publishers

Full text available:  pdf(303.67 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Automotive telematics may be defined as the information-intensive applications enabled for vehicles by a combination of telecommunications and computing technology.

Telematics by its nature requires the capture, storage, and exchange of sensor data to obtain remote services. Such data likely include personal, sensitive information, which require proper handling to protect the driver's privacy. Some existing approaches focus on protecting privacy through anonymous interactions or by stopping i ...

**Keywords:** automotive telematics, data protection architecture, privacy policies



75 A secure infrastructure for service discovery and access in pervasive computing

Jeffrey Undercoffer, Filip Perich, Andrej Cedilnik, Lalana Kagal, Anupam Joshi

April 2003 **Mobile Networks and Applications**, Volume 8 Issue 2

**Publisher:** Kluwer Academic Publishers

Additional Information:



Full text available: [pdf\(308.34 KB\)](#)[full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Security is paramount to the success of pervasive computing environments. The system presented in this paper provides a communications and security infrastructure that goes far in advancing the goal of anywhere-anytime computing. Our work securely enables clients to access and utilize services in heterogeneous networks. We provide a service registration and discovery mechanism implemented through a hierarchy of service management. The system is built upon a simplified Public Key Infrastructure t ...

**Keywords:** distributed services, extensible markup language, pervasive computing, security, smartcards

**76 MARE: resource discovery and configuration in ad hoc networks**

Matt Storey, Gordon Blair, Adrian Friday

October 2002 **Mobile Networks and Applications**, Volume 7 Issue 5

Publisher: Kluwer Academic Publishers

Full text available: [pdf\(246.73 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The emergence of personal portable devices, such as PDA's and Mobile phones, with considerable processing and communication capabilities, has led to a desire to use various combinations of these devices together to achieve new and as yet unrealised operations. Not only are mobile devices expected to offer conventional facilities like email and web browsing but also more demanding multimedia applications. Attaining these operations within a fixed network environment with high-power workstations i ...

**Keywords:** ad hoc, mobile agents, resource discovery, tuple space

**77 Proceedings - only: New channels, old concerns: scalable and reliable data dissemination**

Colin Allison, Duncan McPherson, Dirk Husemann

September 2000 **Proceedings of the 9th workshop on ACM SIGOPS European workshop: beyond the PC: new challenges for the operating system**

Publisher: ACM Press

Full text available: [pdf\(76.39 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

An interesting trend in the continuing convergence of information technologies is the emergence of the Internet as a content provider in its own right, as opposed to its simply being one of many delivery channels. For example, it is increasingly the primary source for items such as court rulings and software releases. Unfortunately the IP protocols normally employed for reliable data transfer are of the point-to-point type and not well suited to large-scale one-to-many dissemination. Sudden rush ...

**78 Nomadic radio: speech and audio interaction for contextual messaging in nomadic environments**

Nitin Sawhney, Chris Schmandt

September 2000 **ACM Transactions on Computer-Human Interaction (TOCHI)**, Volume 7 Issue 3

Publisher: ACM Press

Full text available: [pdf\(648.76 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Mobile workers need seamless access to communication and information services while on the move. However, current solutions overwhelm users with intrusive interfaces and ambiguous notifications. This article discusses the interaction techniques developed for Nomadic Radio, a wearable computing platform for managing voice and text-based

messages in a nomadic environment. Nomadic Radio employs an auditory user interface, which synchronizes speech recognition, speech synthesis, nonspeech audio ...

**Keywords:** adaptive interfaces, contextual interfaces, interruptions, nonspeech audio, notifications, passive awareness, spatial listening, speech interaction, wearable computing

79 [Industry track papers and presentations: product lines: Integrating hundred's of products through one architecture: the industrial IT architecture](#)

 Lars G. Brattahl, Robert van der Geest, Holger Hofmann, Edgar Jellum, Zbigniew Korendo, Robert Martinez, Michal Orkisz, Christian Zeidler, Johan S Andersson  
May 2002 **Proceedings of the 24th International Conference on Software Engineering**

**Publisher:** ACM Press

Full text available:  pdf(1.24 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

During the last few years, software product line engineering has gained significant interest as a way for creating software products faster and cheaper. But what architecture is needed to integrate huge amounts of products, from different product lines? This paper describes such an architecture and its support processes and tools. Through cases, it is illustrated how the architecture is used to integrate new --- and old --- products in such diverse integration projects as vessel motion control, ...

80 [Web technologies and applications \(WTA\): A learning-based approach for fetching pages in WebVigil](#)

 Sharma Chakravarthy, Anoop Sanka, Jyoti Jacob, Naveen Pandrangi  
March 2004 **Proceedings of the 2004 ACM symposium on Applied computing**

**Publisher:** ACM Press

Full text available:  pdf(251.87 KB) Additional Information: [full citation](#), [abstract](#), [references](#)

The World Wide Web is an omni-present and an ever-expanding source of data. Data on the web is constantly increasing and changing. Many a times, users are interested in specific changes to the data on the web. Currently, in order to detect changes of interest, users have to poll the pages periodically and check for the changes of interest. WebVigil is a general-purpose information monitoring and notification system. It handles the specification, intelligent fetch, detection, and propagation of c ...

**Keywords:** ECA rules, best-effort algorithm, change monitoring, intelligent fetching, web

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**81** [Privacy control: Provable bounds for portable and flexible privacy-preserving access](#)

Marina Blanton, Mikhail J. Atallah

**June 2005 Proceedings of the tenth ACM symposium on Access control models and technologies**
**Publisher:** ACM Press

 Full text available: [pdf\(159.61 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In this work we address the problem of portable and flexible privacy-preserving access rights for large online data repositories. *Privacy-preserving* access control means that the service provider can neither learn what access rights a customer has nor link a request to access an item to a particular customer, thus maintaining privacy of both customer activity and customer access rights. *Flexible* access rights allow any customer to choose any subset of items from the repository and ...

**Keywords:** algorithm analysis, compact policy representation, minimal perfect hash functions, order-preserving minimal perfect hash functions, portable access rights

**82** [Technical papers: consistency management and quality assurance: Palantír: raising awareness among configuration management workspaces](#)

Anita Sarma, Zahra Noroozi, André van der Hoek

**May 2003 Proceedings of the 25th International Conference on Software Engineering**
**Publisher:** IEEE Computer Society

 Full text available: Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)  
[Publisher Site](#)

Current configuration management systems promote workspaces that isolate developers from each other. This isolation is both good and bad. It is good, because developers make their changes without any interference from changes made concurrently by other developers. It is bad, because not knowing which artifacts are changing in parallel regularly leads to problems when changes are promoted from workspaces into a central configuration management repository. Overcoming the bad isolation, while retai ...

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